



YOUIMAGINE

# Darth 3.0

By: (gzumwalt)

License: Commercial use is not allowed, you must attribute the creator, you may remix this work and the remixed work should be made available under this license.

Published on: Apr 30, 2021

Located at: <http://www.youmagine.com/designs/darth-3-0>

## Short description:

A 3D printed, ESP32 controlled, stepper driven, animated Darth Vader Helmet with cover.

## Description:

<https://youtu.be/ZxrJb0E9sgw> <https://youtu.be/UD-hKFLpOKw> I designed and 3D printed "Darth 3.0: A 3D Printed Animated Darth Vader Helmet" for our grandkids who are Star Wars fans! This 3.0 version incorporates an ESP32, stepper motor drivers and stepper motors to provide a more complicated and programmable animation sequence. As in my previous Darth animated helmet design, the only contact between each slice must be the pins in the slots, thus careful 3D printing (no warping) and assembly (bearings completely flush with the top and bottom of each slice) are required to successfully 3D print and assemble this model. As usual I probably forgot a file or two or who knows what else, so if you have any questions, please do not hesitate to comment as I do make plenty of mistakes. Designed using Autodesk Fusion 360, sliced using Ultimaker Cura 4.8.0, and 3D printed in PLA on Ultimaker S5s.

If you can, please use the online documentation found at <http://www.youmagine.com/designs/darth-3-0> because those may have been updated. Also, there you can interact and provide praise and/or feedback.